

Title (en)  
Back-up clock supply for digital systems.

Title (de)  
Betriebs-Ersatz-Taktversorgung für digitale Systeme.

Title (fr)  
Alimentation d'un système en impulsions d'horloge de secours pour systèmes digitaux.

Publication  
**EP 0415111 A2 19910306 (DE)**

Application  
**EP 90114780 A 19900801**

Priority  
DE 3928401 A 19890828

Abstract (en)  
[origin: JPH0391820A] PURPOSE: To use a preliminary clock signal without any bit error by synthesizing the same harmonic components of a present clock signal and the preliminary clock signal with one synthetic signal, and deriving the synthetic clock signal. CONSTITUTION: A present clock signal TSb is supplied to a spectrum converter SW1, and a preliminary clock signal TSe is supplied to a spectrum converter SW2. The outputs of the converters SW1 and 2 are supplied through an adder AD to a spectrum converter SW3. A clock signal TSr obtained by synthesizing either a basic wave or a higher harmonic is fetched from an output side 3. Thus, the desired harmonic is fetched by a filter before or after the adder AD. Thus, when the present clock signal TSb lacks, continuous transition to the preliminary clock signal TSe is obtained. At that time, the size of the signal 14 is selected in order to control the converter SW3.

Abstract (de)  
Betriebs-Ersatz-Taktversorgung für digitale Systeme, insbesondere für synchrone Multiplexsysteme und Vermittlungssysteme, mit einem Betriebstakt-Oszillator (VCO<sub>b</sub>) und mit einem Ersatz-Oszillator (VCO<sub>e</sub>), deren Betriebs-Taktsignal (TS<sub>b</sub>) bzw. Ersatz-Taktsignal (TS<sub>e</sub>) auf Baugruppen (BG1, BG2, ...) geführt werden, bei der mindestens eine Taktsignal-Summierschaltung (SU) vorgesehen ist, die gleiche harmonische Spektralsignale unterschiedlicher Amplitude des Betriebs-Taktsignals (TS<sub>b</sub>) und des Ersatz-Taktsignals (TS<sub>r</sub>) zu einem resultierendem Spektralsignal (Sr) addiert.  
<IMAGE> <IMAGE>

IPC 1-7  
**G06F 1/04**; **H03K 5/19**

IPC 8 full level  
**G06F 1/04** (2006.01); **H03B 28/00** (2006.01); **H03K 5/19** (2006.01); **H03K 12/00** (2006.01)

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